

OX-2752
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30 November 1961

Dear Ed,

Enclosed you will please find prints of our proposed arrangement of operator control panel and display lights.

The panel has two basic controls:

CONTROL		POSITION	FUNCTION	WHEN
Payload Operation Selector Switch		OFF		
		Stdby No.1	Scanner Rotation Data Chamber (Syn. with INS)	ON CRD.
		Stdby No.2 (amber light)	Gyro Rev-up Exposure Programmer	20 min before opr.
		Operate (Green light)	Photography	
V/H	Selector Switch	Manual (Amber light)	Alternate V/H Signal to System	As directed by "Check V/H" indicator panel light
		Automatic	Automatic V/H	
		Push	Re-zero	
	Push Button	Push to Start and Stop	Time for Alternate V/H Signal	

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The panel also provides an indication (red light) for the caged condition.

The exposure programmer will be built into this package, and there will be a requirement to readily disconnect the total package from the cockpit, to permit last minute installation of coding discs.

As you will note on the print, we have assumed the availability of two cockpit panel lights: "Payload Failure", and "Check-V/H".

Alternate V/H Operation is as follows:

In the event that the automatic V/H signal is outside of a predetermined permissible range, the "Check-V/H" Panel lamp will light. The operator must then go through the following procedure:

1. Press down (to re-zero) V/H selector switch.
2. Use periscope to visually select target for tracking.
- * 3. When target is observed to meet upper grid line in periscope view, operator pushes down button "Man Input". Do not hold button down.
4. When target is observed to meet lower grid line in periscope view, operator again pushes down button "Man Input".
5. If, at this time, "Check V/H" light is OFF, following steps 1-4, then automatic signal is satisfactory. If "Check V/H" light is still ON, following steps 1-4, then operator should repeat 1-4 cycle from 2-3 times. If "Check V/H" light still remains on, then operator must turn V/H selector switch to manual. The system is now totally dependent on operator determined V/H signal (Steps 1-4), which must be periodically provided. An amber light on the control panel denotes this dependency, and the "Check-V/H" panel light will remain on.
6. It will also be advisable to periodically recheck automatic V/H. This can be done by switching back to auto. If "Check-V/H" panel light goes OFF, then operator need not supply further alternate V/H signals. If "Check-V/H" panel light remains ON, then operator should switch back to manual and continue 1-4, as required.

* Minimum of 7 second delay required between steps 1 and 3.

I would very much appreciate your early comments.

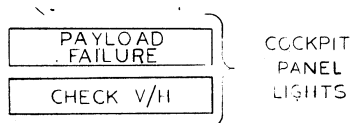
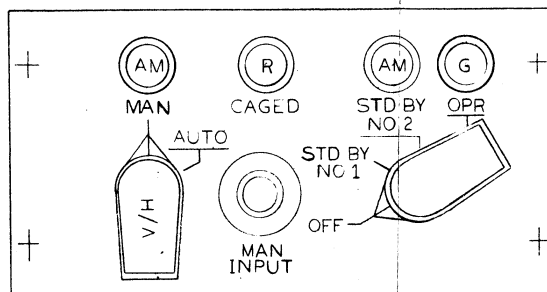
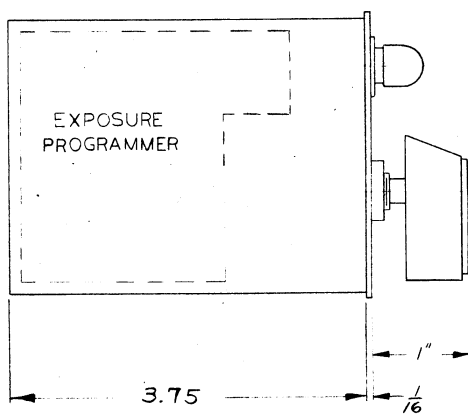
Sincerely

Jules
Jules

JC:mb

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CONTROL PANEL